

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Tu, *et al.* Attorney Docket: TSM03-0426  
Filed: Herewith Examiner: TBD  
Serial No.: TBD Art Unit: TBD  
For: MIM Capacitor Structure and Method of Manufacture

Mail Stop: Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

The Applicants wish to bring to the attention of the Patent and Trademark Office the information noted on the enclosed form PTO/SB/08A that may be considered material to the examination of the above-identified application.

No fee is due at this time, as this Information Disclosure Statement is being filed concurrently with the patent application.

Respectfully submitted,



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October 20, 2003

Date

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	TBD
				Filing Date	Herewith
				First Named Inventor	Tu, <i>et al.</i>
				Art Unit	TBD
Examiner Name	TBD				
Sheet	1	of	1	Attorney Docket Number	TSM03-0426

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-6,051,462 A	04-18-2000	Ohno	
	2	US-6,281,540 B1	08-28-2001	Aoki	
	3	US-6,399,399 B2	06-04-2002	Yamamoto	
	4	US-6,399,495 B1	06-04-2002	Tseng, <i>et al.</i>	
	5	US-6,455,368 B2	09-24-2002	Aoki	
	6	US-6,528,366 B1	03-04-2003	Tu, <i>et al.</i>	
	7	US-6,579,755 B2	06-17-2003	Kim, <i>et al.</i>	
	8	US-6,620,685 B2	09-16-2003	Oh	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	9	LIU, <i>et al.</i> , Single Mask Metal-Insulator-Metal (MIM) Capacitor with Copper Damascene Metallization for Sub-0.18µm Mixed Mode Signal and System-on-a-Chip (SoC) Applications, 2000, Lucent Technologies Bell Laboratories, Murray Hill, NJ, US.	
	10	ISHIKAWA, <i>et al.</i> , High-Capacitance Cu/Ta <sub>2</sub> O <sub>5</sub> /Cu MIM Structure for SoC Applications Featuring a Single-Mask Add-on Process, 2002, Central Research Laboratory, Kokubunji, Tokyo, Japan.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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